PONY

ICT

October Revision

5th

Primary

First Term

Lesson 2

>> **Flash Memory:** It transfers files and data between computers.

>> **External Hard Drive:** Like HDD, but much faster.

>> **Ethernet Cable:** It connects a computer or laptop to a router.

>> **Ethernet Port:** It connects an ethernet cable. Ethernet is more stable and faster than Wi-Fi.

>> **Router:** Is a device that connects a computer to the internet via ethernet or Wi-Fi.

>> **HDMI:** It transmits audios and videos from/to devices.

❶ Bit	The smallest unit of data	0 or 1
❷ Byte	1 Byte = 8 bits = 1 character	"Cat" = 3 characters = 3 Bytes
❸ Kilobyte (KB)	1 KB = 1024 B	
❹ Megabyte (MB)	1 MB = 1024 KB	
❺ Gigabyte (GB)	1 GB = 1024 MB	
❻ Terabyte (TB)	1 TB = 1024 GB	

>> **Megabits per second (Mbps):** Measures the speed of a network or the internet connection.

>> The faster the speed, the better the internet connection.

>> **GigaHertz (GHz):** Measures the number of cycles your CPU carries out per second.

>> The higher the number of cycles, the faster the speed.

Problem	Reason	Solution
❶ **Trouble processing large files.** (Like a large PowerPoint presentation)	• Not enough graphics storage	• Shut down some programs.
❷ **Not able to store files**	• Not enough space	• Move old files to an external drive.
❸ **A poor video-conference connection**	• Slow wireless internet connection	• Try an ethernet connection.
❹ **The home internet connection is not working.**	• Connection interrupted	• Use the ethernet or contact an (ISP). (Internet Service Provider)

Lesson 3

➤➤ **Networks:** They are groups of people or things that are connected to each other for a common purpose.

➤➤ **Local Area Network (LAN):** It consists of a computer connected to another computer or device, such as a printer or router.

➤➤ **Internet:** It connects millions of computers from all around the world.

• To connect a computer to the internet, we need a gateway, such as a router.

➤➤ **Router:** It connects your computer to an ISP to provide internet access.

➤➤ **The ISP:** Is a company that provides the internet service to the customers.

➤➤ **World Wide Web (WWW):** Is a part of the internet network, and is made up of web pages and sites that people can navigate.

➤➤ **Intranet:** It is private, and restricted to only those who are part of the business, school, or organization.

➤➤ **Open Network:** It is open and accessible to all, such as the web.

➤➤ **Closed Network:** It may have only computers linked by a cable to allow file sharing, such as a school's computer lab.

History of Communication Technology:

- **80s:** They used phone lines to connect to the internet, this was slow but stable
- **Late 80s:** DSL allows phones and the internet to be used simultaneously.
- **90s:** Emergence of the World Wide Web (WWW).
- **2000+:** Wi-Fi and Hotspots (they both allow internet access anywhere from your smartphone).

Lesson 4

- We use closed networks to share private information.
- We use open networks to share public information.
- **Internet of Things (IoT):** Consists of devices linked to the internet via Wi-Fi.
- **Bluetooth:** Is a networking technology that connects wireless mobile devices over a short range to form a network to transmit data between different devices.
- You should ask your parents before going shopping online.
- **Screen Readers:** Help visually impaired people write research papers, do homework, and access files and documents on PCs.
- **Braille Method:** Helps blind people read and write.
- **E-commerce:** Is online shopping, where people can buy and sell products.

Lesson 5

- **Follow this troubleshooting process to help with computer problems:**
  1. Identify the problem.
  2. Plan different ways you might solve the problem with
  3. Go through your potential solutions.
  4. If you do not find a solution, you should ask your teacher or a member of your family for help.

Problem	Solution
❶ The computer slows down when opening an app.	• Shut down and restart it. • Check for software updates. • Delete unwanted apps.
❷ The browser is running slow.	• Check Wi-Fi signal. • Make sure apps are up to date on your device.
❸ No internet connection	• Use the software to troubleshoot your Wi-Fi connection. • Check that the router is connected. • Restart your router. • Try a new ethernet cable. • Contact the customer service of your ISP for help.
❹ Slow to download	• Restart your computer and router. • Check the internet speed.

Lesson 6

>> There are many ways to find information, such as QR codes, libraries, the internet, and TV.

>> QR codes help us access the information easily and quickly by scanning the code with a camera phone.

>> Scanner: Saves images and documents on a computer for later use.

>> Flash Memory: Stores and shares information and data.

>> How to get organized using ICT tools?

❶ Create the main folder:
  • Press the right click >>> New >>> Folder
  • Then, type a name for the folder.

❷ Add sub-folders:
  • Open the main folder > press right click > select New > then select Folder.
  • Type a name for the folder.

>> You can give a title to a folder by pressing right click then "Rename".